

SN 10/790,638

Docket No. S-100,565

In Response to Office Action dated November 6, 2007RECEIVED
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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (previously amended) An apparatus comprising:
 - a transparent substrate for support of a sample under investigation, and sample comprising membrane vesicles including a trifunctional linker molecule including a fluorophore;
 - a light source for providing an excitation light beam to excite the sample;
 - a first filter means for reflecting the excitation light beam from the light source to an objective and for filtering light received from the sample;
 - an objective for collecting the reflected excitation beam from said first filter means and sending it through the transparent substrate to the sample;
 - a support having a pinhole therethrough for directing light filtered by said first filter means to a second filter means;
 - a second filter means for reflecting a portion of the light received from the pinhole to a first detector means, and for filtering the remainder of the light received through the pinhole;
 - a first detector means for detecting light reflected from said second filter means; and
 - a second detector means for detecting light filtered by said second filter means.
2. (original) The apparatus of claim 1 wherein said objective is a converging lens.
3. (original) The apparatus of claim 1 wherein said first filter means and said second filter means are dichroic mirrors.

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4. (original) The apparatus of claim 1 wherein said first filter means is a longpass optical filter reflecting excitation wavelengths and passing fluorescence emission wavelengths and said second filter means spectrally resolves said fluorescence emission wavelengths.

5. (original) The apparatus of claim 3 wherein said first dichroic mirror reflects wavelengths below 500 nm and passes wavelengths above 500 nm and said second dichroic mirror reflects wavelengths below 550 nm and passes wavelengths above 550 nm.

6. (original) The apparatus of claim 1 wherein said transparent substrate is of glass.

7. (original) The apparatus of claim 1 wherein said apparatus is characterized as having a single detection channel.

8-15. (cancelled)